Special Issue

Local Structure Characterization for Complex Functional Materials

Message from the Guest Editor

This Special Issue aims to provide a platform for community discussion about the recent progress and futuristic perspective of local structure characterization in complex functional materials. The local perspective of the microscopic structure plays a critical role in determining the properties of a wide range of functional materials, e.g., the polarization behavior in ferroelectric materials, ion transportation behavior in energy story materials, coordination chemistry in catalysis materials, and magnetic anisotropy in low-dimensional magnetic systems, among others. Characterization of the local structure of functional materials thus becomes an imperative task in pursuit of better understanding the structure–property link, aiming to provide reliable guidance principles for designing better-performing functional materials. As the exploration space further extends to complex function materials, there emerges an increasing demand for comprehensive characterization of the local structure.

Guest Editor

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Deadline for manuscript submissions

closed (20 May 2025)

Materials

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed

mdpi.com/si/177376

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